



BRUHAT BENGALURU MAHANAGARA PALIKE

Modified Estimate for Improvements to Concrete roads at Ravindra Nagar in ward 13 shettyhalli Sub division

B Code:- 013-19-000027

Description				Est Cost:-			40.00	Lakhs
	Unit	No	Length	Width	Depth	Qty	Rate	Amount
KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (PWD,SZB,SR,2018-19. Pg No-140, I. No-18.47)								
17th Cross		1	120.00	2.80	0.30	100.80		
9th Cross 2nd to 4th Main	Cum	1	192.80	5.00	0.30	289.20		
9th Cross 3rd to 4th Main	Cum							
						390.00	1048.00	408720.00
KSRRB 300-2. Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (PWD SR 2018-19 P.No: 143, I.No.: 19.1)								
For Desilting								
17th Cross		2	120.00	0.45	0.40	43.20		
9th Cross 2nd to 4th Main		2	192.80	0.45	0.40	69.41		
For Road work	Cum							
17th Cross		1	120.00	2.80	0.23	77.28		
9th Cross 2nd to 4th Main		1	192.80	5.00	0.23	219.61		
						409.50	152.00	62244.00
KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.MORTH -100/ Chapter 1 (PW,P& IWTDR 2018-19, Pg No 16, Item No. 17.1 & 17								
Qty vide item no 1+2	Cum	1	799.50			799.50	81.00	64760.00
KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (PWD SR 2018-19 P.No: 147, I.No.: 19.64)								
17th Cross	Sqm	1	120.00	2.80		336.00		
9th Cross 2nd to 4th Main		1	192.80	5.00		964.00	7.00	9100.00
						1300.00		

Description	Unit	No	Length	Width	Depth	Qty	Rate	Amount
KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (PWD SR 2018-19 P.No: 155, I.No.: 20.18)								
Road Cut Portion								
17th Cross	Cum	1	120.00	1.00	0.35	42.00		
For Road								
For Patch Works		10	4.00	2.30	0.20	18.40		
						60.40	2200.61	132917.00
Basic Rate	1888.00							
Add 6% Area weightage	113.28							
	2001.28							
Add Tender Premium 9.96% Above	199.33							
Total	2200.61							
KSRRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PW,P& IWTD SR 2018-19,Page No-13 Item No-4.2)								
17th Cross		1	120.00	3.00	0.10	36.00		
9th Cross 2nd to 4th Main		1	101.00	5.80	0.10	58.58		
9th Cross 3rd to 4th Main	Cum	1	92.90	5.75	0.12	61.42		
						156.00	6056.00	944733.00
Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregates , with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)(PW,P& IWTD SR 2018-19, Pg No 176, Item No. 22.6.1)								
17th Cross	Cum	1	120.00	3.00	0.15	54.52		
9th Cross 2nd to 4th Main		1	101.00	5.80	0.125	73.48		
9th Cross 3rd to 4th Main		1	92.90	5.75	0.125	67.00		
						195.00	5732.00	1117741.00

Description	Unit	No	Length	Width	Depth	Qty	Rate	Amount
KSRRB M500- 4 Providing and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 0.90kg/sqmt over prepared surface with 5.5 bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour, HOM of machineries complete as per specifications.. MORTH Chapter 501 of MORTH V revision (PWD SR 2018 19 P.No: 158, I.No.: 21.5)								
For Patch Works	Sqm	10	4.20	2.50		105.00		
						105.00	48.00	5040.00
KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 100/120 TPH capacity H.M.P. with sensor paver Gr-1 (50 mm to 75mm) with 3.3 % VG-30 Bitumen (PWD SR 2018-19 P.No: 159, I.No.: 21.11.2)								
For Pact work	Cum	10	4.20	2.50	0.05	5.25		
						5.25	8021.00	42110.00
KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (PWD SR 2018-19 P.No: 158, I.No.: 21.2)								
Cross road WO205	Sqm	1	300.00	4.00		1200.00		
Basic Rate	5.00					1200.00	5.83	6993.00
Add 6% Area weightage	0.30							
	5.30							
Add Tender Premium 9.96% Above	0.53							
Total	5.83							
KSRRB M500- 4 Providing and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 0.90kg/sqmt over prepared surface with 5.5 bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour, HOM of machineries complete as per specifications.. MORTH Chapter 501 of MORTH V revision (PWD SR 2018-19 P.No: 158, I.No.: 21.5)								
Cross road WO205	Sqm	1	300.00	3.80		1140.00		
Basic Rate	41.00					1140.00	48.00	54720.00
Add 6% Area weightage	2.46							
Total	43.46							

Sl No	Description	Unit	No	Length	Width	Depth	Qty	Rate	Amount
12	KSRRB M500-19. Providing and laying bituminous concrete , using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specification clause No. 500.7 of MORTH Vreision using 120 TPH capacity Asphalt batch mix plant with sensor paver Gr -II (30 mm to 40 mm) with 5.4 % VG-30 Bitumen (PWD SR 2018-19 P.No: 162, I.No.: 21.22.2)		1	300.00	3.80	0.040	45.60		
	Cross Road No 205						45.60	11212.00	511267.00
	Basic Rate	9616.00							
	Add 6% Area weightage	576.96							
	Total	10192.96							
13	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (PWD SR 2018-19 P.No: 182, I.No.: 24.5)								
	Cross Road No 205	Sqm	2	300.00	0.10		60.00		
							60.00	490.00	29400.00
	SUB TOTAL								3389747.00
	GST 18%								610154.46
	Micellaneous and rounding off								98.54
	TOTAL								4000000.00

K. Sreejith
Assistant Engineer
Ward No 13

K. Sreejith
Assistant Executive Engineer
Shetty Halli Sub Division

[Signature]
Executive Engineer
Dasarahalli Division

Technically Sanctioned Rs. **33,89,747.00**

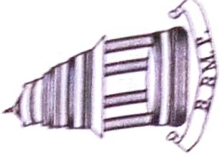
Rs. in words **Rs. Thirty three Lakhs Eighty nine thousand Seven Hundred and Forty seven only**

P-3473

Job Code No. **013-19-000047**

Registered as CE No. **45/2022-23**, Subject to conditions contained in the enclosed Memo No. **CE/04/2022/45/2022-23**, Dt. **29/03/2023**

AE/JE: *[Signature]* **TS** *[Signature]* **SE (D)**

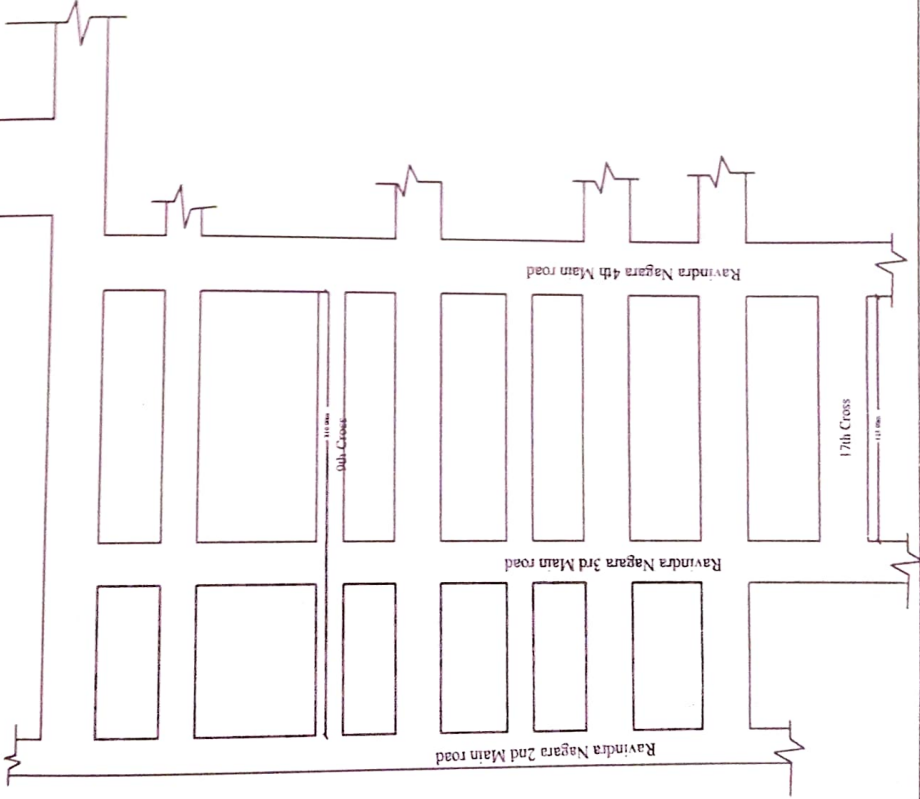


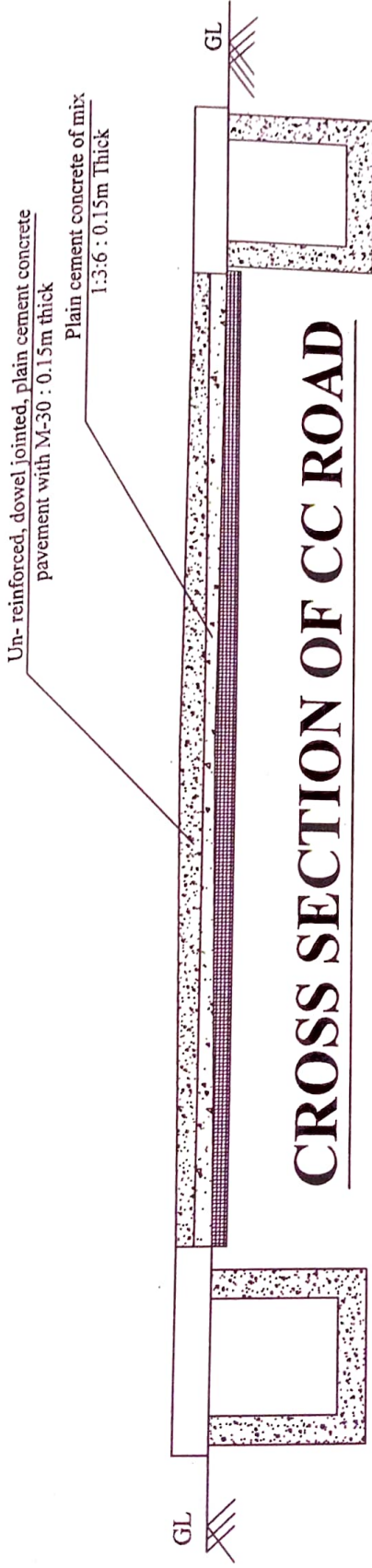
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Note :- Drawing Not to Scale

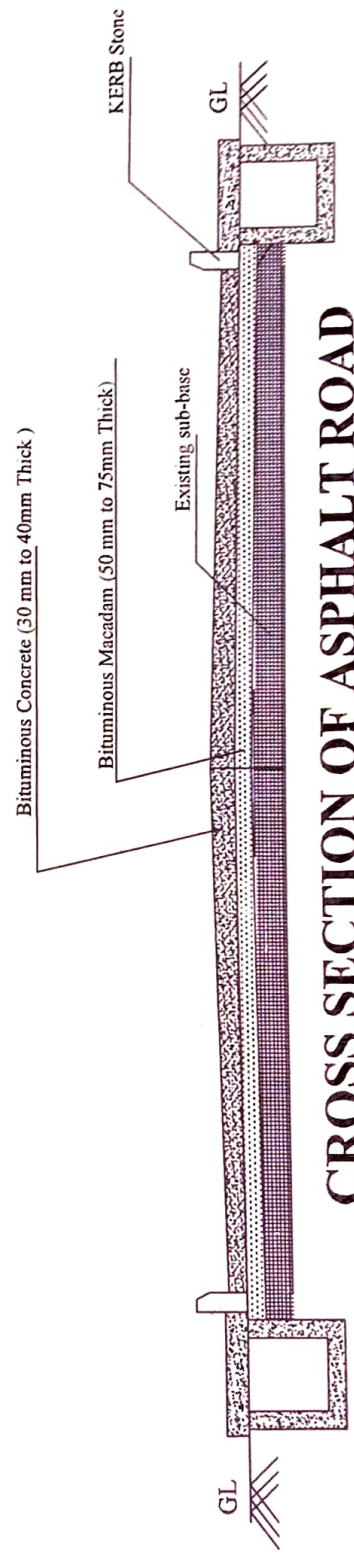
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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಜಿಲ್ಲಾಧಿಕಾರಿ, ಬೆಂಗಳೂರು





CROSS SECTION OF CC ROAD



CROSS SECTION OF ASPHALT ROAD

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ಜಿಲ್ಲಾ ಮಹಾಕೂಲಿ, ಬೆಂಗಳೂರು

Note :- Drawing Not to Scale